

Interference Search History

s/n: 10/779,392  
date: 12/14/05

(((lens or optic\$3) and (deform or deformable or deformation or  
deform\$4)) and (actuator or piezoelectric or transducer) and  
10 alternate).clm.

US-PGPUB; USPAT 12/13/05 17:20

(((lens or optic\$3) and (deform or deformable or deformation or  
deform\$4)) and (actuator or piezoelectric or transducer) and  
49 alternat\$4).clm.

US-PGPUB; USPAT 12/13/05 17:20

s/n: 10/779,392  
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4 ("4993823") or ("6552862") or ("6580570") or ("6307688")).PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	12/14/05 9:08
1 ("5669127").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	12/14/05 9:08
39 S103 not S102 (((lens or optic\$3) and (deform or deformable or deformation or deform\$4)) and (actuator or piezoelectric or transducer) and 10 alternate).clm. (((lens or optic\$3) and (deform or deformable or deformation or deform\$4)) and (actuator or piezoelectric or transducer) and 49 alternat\$4).clm. ((lens or optic\$3) with (deform or deformable or deformation or 4306 deform\$4)) and (actuator or piezoelectric or transducer)	US-PGPUB; USPAT; USOCR	12/13/05 17:21
98 S100 and S87 ("4203654"   "4660941"   "4705365"   "4708420"   "4917484"   12 "5172261"   "5828690"   "6188502").PN. OR ("6411426").URPN. ("4202605"   "5026977"   "5428482"   "5719846"   "5986795"   "6411426"   "6496466"   "6566627"   "6585379").PN. OR 9 ("6844994").URPN.	US-PGPUB; USPAT; USOCR	12/13/05 17:20
2 ("5731909").PN. OR ("6721104").URPN. ("1269422"   "3598479"   "4383175"   "4444471"   "4514048"   "4712882"   "4783155"   "4783233"   "4784479"   "4802746"   "4859041" 23   "4913536"   "5484096").PN. OR ("5731909").URPN.	US-PGPUB; USPAT; USOCR	12/13/05 17:20
1592 ben-loha\$9.xp.	US-PGPUB; USPAT; USOCR	12/13/05 17:19
6E+06 @ad>="20010101"	US-PGPUB; USPAT; USOCR	12/13/05 17:18
286 S88 and S93	US-PGPUB; USPAT; USOCR	12/13/05 17:17
39 S87 and S94	US-PGPUB; USPAT; USOCR	12/13/05 17:04
485 schwartz-jordan\$9.xp.	US-PGPUB; USPAT; USOCR	12/13/05 17:00
792 mai-huy\$9.xp.	US-PGPUB; USPAT; USOCR EPO; JPO; DERWENT; IBM_TDB	12/13/05 16:27
243 lester-evelyn\$9.xp.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	12/13/05 15:32
1838 sugarman-scott\$9.xp.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	12/13/05 15:32
2174 (359/822-824).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	12/13/05 15:32
13 ("4875764"   "4875765").PN. OR ("4993823").URPN.	US-PGPUB; USPAT; USOCR	12/13/05 15:31

27 lens with actuator with alternate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/22/05 14:00
2 ("4993823").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/22/05 14:00
284 lens same actuator same alternate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/22/05 13:58
0 lens same actuator same alternat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/22/05 13:57
85 S82 and lithography	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/22/05 13:57
3 ("6366413"   "6369959"   "6392825").PN.	US-PGPUB; USPAT; USOCR	6/11/05 15:11
0 S78 and lithography	US-PGPUB; USPAT; USOCR	6/11/05 15:11
1 S78 and microlithography	US-PGPUB; USPAT; USOCR	6/11/05 15:11
2 (("6552862") or ("6580570")).PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/11/05 14:03
1 ("6816325").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/11/05 14:03
4 (("6307688") or ("6275344") or ("6259571") or ("6271976")).PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/11/05 14:02
8 (("4226507") or ("4492431") or ("4155631") or ("5557469")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/10/05 17:30
19 ("20010008440"   "20010012154"   "20010023042"   "20010038497"   "20010053489"   "20020126380"   "20030086171"   "4993823"   "5184176"   "5805273"   "6084708"   "6191880"   "6201634"   "6248486"   "6252712"   "6285512"   "6307688"   "6366404"   "6646718").PN.	US-PGPUB; USPAT; USOCR	6/10/05 17:29
2 ("4993823").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/10/05 17:20
10 ("4993823").URPN.	USPAT	6/10/05 17:20
228 S45 and S69	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/10/05 17:19
3942 ((359/819,822,823,824) or (369/44.14,44.15)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/10/05 17:07
4083 ((359/819,822,823,824) or (369/44.14,44.15)).CCLS. ("2937571"   "3601343"   "4726671"   "4733945"   "4929054"   7 "5428482").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/10/05 17:07
1549 (250/234).CCLS.	US-PGPUB; USPAT; USOCR USPAT	6/10/05 17:03
177 S67 and actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/10/05 17:03
11 ("6239924").URPN.	USPAT	6/10/05 16:53
4 ("4236790"   "5210650"   "5283695"   "5313333").PN.	US-PGPUB; USPAT; USOCR	6/10/05 16:46
2 ("6369959").URPN.	USPAT	6/10/05 16:45

("5299066"   "5570238"   "6166868"   "6188841"   "6198579"   6 "6229657").PN. 4 ("6198579").URPN. 11 ("6239924").URPN. 0 ("6594093").URPN.	US-PGPUB; USPAT; USOCR USPAT USPAT USPAT	6/10/05 16:45 6/10/05 16:44 6/10/05 16:43 6/10/05 16:43
5 ("6198579"   "6239924"   "6366413"   "6400516"   "6445515").PN. 0 ("6859337").URPN.	US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB USPAT	6/10/05 16:43 6/10/05 16:42 6/10/05 16:42 6/10/05 16:42
2 ("5428482").PN. 20 ("5428482").URPN. ("20030162484"   "4681408"   "4726671"   "5249082"   "5986827"   7 "6392825"   "6400516").PN. 18 ("5986827").URPN. 6 ("6388823").URPN. ("4155631"   "4226507"   "4492431"   "4993823"   "5053794"   8 "5457577"   "5822133"   "5986827").PN. ("3917385"   "3989358"   "4298248"   "5353167"   "5986827"   6 "6191898").PN. 25 ("5376988"   "5986827").URPN. ("3989358"   "4442524"   "4534621"   "5353167"   "5376988"   "5986827"   "6005723"   "6220561"   "6229657"   "6259571"   11 "6388823").PN. 5 ("6229657").URPN.	US-PGPUB; USPAT; USOCR USPAT USPAT US-PGPUB; USPAT; USOCR USPAT USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB USPAT	6/10/05 16:23 6/10/05 16:20 6/10/05 16:16 6/10/05 16:16 6/10/05 15:57 6/10/05 15:56 6/10/05 15:48 6/10/05 15:47 6/10/05 15:46 6/10/05 15:46 5/19/05 17:00 5/19/05 16:56 5/19/05 16:55 5/19/05 16:54 5/19/05 16:48 5/19/05 16:47 5/19/05 16:40 5/19/05 16:32 5/19/05 16:31 5/19/05 16:29 5/19/05 16:29 5/19/05 16:28 5/19/05 16:27 5/19/05 16:05
2194 lens with (optical adj2 axis) with actuator		
7 lens with (optical adj2 axis) with actuator with circumference 0 ("2001/0038500").URPN.		
5 ("6198579"   "6239924"   "6366413"   "6400516"   "6445515").PN. 2 ("6366413").URPN. 5 ("6229657").URPN.		
177 S39 not (objective adj lens) not zoom		
515 S38 and actuator		
3370 (359/819,822,823,824).CCLS. ("4155631"   "4226507"   "4492431"   "4993823"   "5053794"   8 "5457577"   "5822133"   "5986827").PN. 6 ("6388823").URPN. 1 ("6580570").URPN.		
("20020001142"   "20020021504"   "3917385"   "5428482"   "5537262"   10 "6144511"   "6275344"   "6307688"   "6580570"   "6603615").PN. ("20020001142"   "20020021504"   "3917385"   "6275344"   5 "6307688").PN. 7 ("6307688").URPN. ("4155631"   "4226507"   "4492431"   "4993823"   "5053794"   8 "5457577"   "5822133"   "5986827").PN.		

95 martinez-joseph\$9.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/19/05 15:55
2 ("4993823").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/19/05 15:44
30 lens same actuator same (seat feet finger point) same circumfer\$9	US-PGPUB; USPAT; IBM_TDB	12/7/04 15:28
lens same actuator same (seat feet finger point lever) same		
35 circumfer\$9	US-PGPUB; USPAT; IBM_TDB	12/7/04 15:28
30 lens same actuator same (seat feet finger point) same circumfer\$9	US-PGPUB; USPAT; IBM_TDB	12/7/04 15:28
5 S26 not S27	US-PGPUB; USPAT; IBM_TDB	12/7/04 15:28
0 ("6556364").URPN.	USPAT	12/7/04 10:37
("3989358"   "4442524"   "4534621"   "5353167"   "5376988"		
7 "5986827"   "6005723").PN.	US-PGPUB; USPAT; USOCR	12/7/04 10:37
1 ("6556364").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	12/7/04 10:20
("4996545"   "5012347"   "5084724"   "5153633"   "5181056"		
7 "5266988"   "5416558").PN.	US-PGPUB; USPAT; USOCR	12/6/04 14:27
3 ("5592251").URPN.	USPAT	12/6/04 14:26
("20010004420"   "5153633"   "5444512"   "5592251"   "5671448"		
8 "5768016"   "5842053"   "5870634").PN.	US-PGPUB; USPAT; USOCR	12/6/04 14:24
4 ("5870634").URPN.	USPAT	12/6/04 14:23
1 ("6397008").URPN.	USPAT	12/6/04 14:23
0 ("6539174").URPN.	USPAT	12/6/04 14:22
1 ("5870634").PN.	US-PGPUB; USPAT; USOCR	12/6/04 14:22
1979 lens same actuator same (seat feet finger point)	US-PGPUB; USPAT; IBM_TDB	12/6/04 14:19
160 S2 and S12	US-PGPUB; USPAT; IBM_TDB	12/6/04 14:18
153 S13 not S9	US-PGPUB; USPAT; IBM_TDB	12/6/04 14:18
174 lens same actuator same (seat feet finger)	US-PGPUB; USPAT; IBM_TDB	12/6/04 14:09
0 ("6552862").URPN.	USPAT	12/6/04 14:09
13 ("4778252").URPN.	USPAT	12/6/04 13:33
7 S8 and S2	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:31
34 S3 not S6	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:30
BECK-KLAUS\$9.in. or GELLRICH-BERNHARD\$9.in. or HOLDERER-		
HUBERT\$9.in. or PETASCH-THOMAS\$9.in. or ROESCH-		
52 CORNELIA\$9.in. or KOHL-ALEXANDER\$9.in.	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:24
23 S4 and actuator	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:21
18 S5 and mount\$5	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:21
49 S3 and lens	US-PGPUB; USPAT; IBM_TDB	12/6/04 13:20